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REPORT NO. 8



USDA

Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 December 7, 1973

This is the eighth of a series of reports of fiber and processing test results from the 1973 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1972", May 1973. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1973

Discussion of Test Results

Cotton Division laboratories of the Agricultural Marketing Service, USDA, report short staple samples tested through November 30, have approximately the same fiber properties as last season at this time. Shirley Analyzer non-lint content and picker and card waste are higher. Yarn appearance grades and imperfections are lower than last season. Average spinning potential yarn number is lower.

Averages for all medium staple samples tested show coarser fibers compared with a year ago. Yarn imperfections are more this season. Average spinning potential yarn number is lower.

Medium staple samples from the Southeast tested to date show coarser fibers. Shirley Analyzer nonlint content is higher. Yarn imperfections are greater than a year ago. Spinning potential is lower than last season.

South Central medium staple samples tested are coarser and weaker than a year ago. Yarns spun from these samples show approximately the same processing test results as a year ago.

Southwest medium staple samples are weaker at zero gage strength. Picker and card waste is less this season. Yarns spun from these samples are weaker. Appearance grades are lower, with more imperfections showing up than a year ago at this time. Average spinning potential yarn number is lower.

Medium staple samples from the West show fiber to be longer with a higher uniformity than last season. Samples tested are coarser and stronger than a year ago. Yarns spun from these samples are stronger. Appearance grades were lower and more imperfections appeared in samples tested to date.

Averages for all long staple samples tested through this period show weaker fiber at zero gage strength than a year ago. Yarns spun from these samples show higher appearance grades for both carded and combed yarns. Yarn imperfections are fewer for carded yarns.

Southeast long staple samples tested show coarser and weaker fibers than a year ago. Shirley Analyzer results show higher nonlint content than a year ago. Yarns spun from these samples show higher appearance grades than last season. Yarn imperfections are fewer for carded yarns.

South Central long staple samples show shorter length and weaker fiber strength than last season. Comber waste is higher than last season. Yarns spun from these samples are weaker, but appearance grades are higher. Yarn imperfections are more than last season. Spinning potential number is lower than a year ago.

Long staple samples tested from the West to date are shorter than last season. Comber waste is less. Yarns spun from these samples are stronger and appearance grades higher than a year ago. Imperfections are fewer this season and spinning potential yarn number is higher.

Averages of fiber and processing tests from selected gin points in the United States through November 30, 1973

Table 1.--Cotton:

	Staple group Area, and Crop year		Short Staple: Southwest 1972 1973	Medium Staple: Southeast 1972 1973	South Central 1972 1973	Southwest 1972 1973	West 1972 1973	U.S. Average 1972 1973	Significant dif- ference 2/
	Lots tested	No.	22	51	135	29	38	253 213	
	Fibrograph 2.5% 50/ span un	Inches	86.86	1.08	1.09	1.07	1.11	1,09	nt dif- 2/ 0.02
Fiber	graph 50/2.5 unif.	Pct.	45 46	t + 100	t t と	46 45	74 74	45	CU .
er test	Mike fine- ness	Rdg.	4.5	4.3	7.4	† † †	\tau_+.4	†•• †•	0
results	Fiber Zero gage	Mpsi	84 85	883	87 87 87	84 81	91	85 84	Q
	strength 1/8" gage	G/tex	20	23	23	22	25	53	п .
	S A nonlint	Pct.	0. K	3.6	8.0 0.0	0.00	9.0 4.0	0 0 0 0	0.5
	P & C waste	Pct.	6.7	6.1	6.1	5.6	17. 72 12. 13.	0.0	0.5
Processing	Skein Ar	Lbs.	95	105 104	10 ⁴ 102	103 99	113	103	4 (22s)
	quali pear-	Index	119	103	109	121	121	111	7.
test results	ty Imperf- ections	No.	22 19	16 2 2	18	21 25	15	1.8	Q
	Spin. Potent.	Yarn No.	47	67	62	63	68	99	т

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality

Averages of fiber and processing tests from selected gin points in the United States through November 30, 1973 $_{\rm L}$ (Continued)

Table 1.--Cotton:

		Ţ	Fiber 7	Test R	esult	S				Pro	Processing	Test	Results				
Staple group, Area, and Crop year	Lots	Spar	nit	Mike	Strength Zero 1/8' gage gage	1/8" gage	SA Non- lint	P&C Waste	Comber Waste	Strength carded com	a	rn Qua Appe	Quality Appearance	Imprfctns card comb	ctns	SPY	
	No.	In.	Pct.	Rdg.		G/tx	Pct.	Pct.	Pct.	Lbs. I	Lbs. 2s Carde	Indx d & Cor	Lbs. Indx Indx Carded & Combed Yarn	ွှဲ	No.	No.	
Long Staple: Southeast 1972 1973	16	1.12	1 ⁴ 17	4.4	85	24	w. 4 v. 0	88	16.9	107	123	102	116	24 17	σ, ω	69	
South Central 1972 1973	wrv	1.17	44	44.00	8 8 9	54	4.1	88	15.6	117	133	103	113	16	ω σ/	75	
West 1972 1973	10	1.18	44 22	w w	92	26	. a . a	7.0	15.4	128	146 153	91 104	98	30	15	93	- 5 -
U.S. Average 1972 1973	25	1.14	44	4.3	88	24	3.3	7.9	16.2	115	132	98	123	25 18	10	75	
Extra Long Staple:			Ar	Array				Amer	American Pima	ma		50.8	s Combed	d Yarn	CI.		
West 1972 1973	∞ m	1.46	32	3.6	688	31	0 0 0 0	7.8 7.1	18.1 18.0		63		109		m 01		
Significant Difference <u>2</u> /		0.02	ત	0.8	α	٦	0.5	0.5	0.5	4 (22s)	4(22s) 2(50s)	7.	5	ત	a	m	
1/ Based on a limited number of sam	a limi	ted nur	nber c	of sam	ples	of modal		quality									

Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples. Based on a limited number of samples of modal quality ને∾ા

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973

ı	1 .								- 6 -			
	Spin.	tial	읽		80 80	45	72	46	38	4 1	41	34
	Imprfect'ns	22sor 27 tx	잉		14	23	15	28	œ	13	19	11
Yarns	Imprf	8s or 74 tx	No.		17	5,4	19	33	1.1	23	53	14
Carded	rance	22sor 27 tx	N N		110	110	120	100	110	110	120	100
1	Appearance Index	8s or 74 tx	No		130	120	130	120	130	130	130	120
Test Results	tion	22s or 27 tx	Pet		6.1	7.2	4.6	1.9	9.9	5.3	6.3	5.4
Processing T	Elongation	8s or 74 tx	Pct		FNT 7-1	ENT 8.4	1.5	7.9	7.8	T.7	-NT 7.4	7.0
Proces	gth	22s or 27 tx	Tps		PERCENT 87 7.	PEPCENT 91 8.	PERCENT 89 7.	PERCENT 92 7.	PERCENT 89 7.	PERCENT 91 7.	PERCENT 94 7.	PERCENT 80 7.0
	Strength	8s or 74 tx	Tps		103	100	90 283	85 291	291	75 297	100 291	100 8
	P & C	Waste	Pct		7.0	5.4	5.1	3.3	5.9	5 • 2	5.7	7.1
	Color Raw Stock	Yel	SI N		ж	~	3	٣	6	٣	~	۳
	Co Raw	Gra	No		4	2	-	κ	-	2	2	-
	S.A.		Pet		1,2.9	2.8	2.3	5.1	PRINE 1.9	7.7	2.1	8 . 7
lts	Elon-	1/8"	Pct		LX 57 6.3	611 8.4	90	57	STURMPRINE 6.4 1.9	57	LX 57 6.5	ER 202 6.0
Fiber Test Results	Fiber Strength	1/8" Gage	G/tex		LANKART 21	L ANKART	RILCUT	L ANKARI 21	WESTERN 20	LAMKART 22	LANKART 21	PAYMASTER 202 20 6.0
Fiber	Fi Stre	Zero Gage	Mpsi		88	81	82	č ∵	83	93	ε ε	89
	Mike		Rdg		4.6	4.	φ «	3.7	4.3	4. 8	4.7	3. 8
	ital graph	Unif	Pet		45	46	43	45	14	44	46	45
	Digital Fibrograph	3	되		0.93	0.93	0.91	521/21 1.02	0.93	0.95	0.99	0.83
		Stple	32s	APEA	31	33	31 30	12	31	30	21	62
rea,	er	le		€1	42	45	31	52 <u>1</u>	31	41	41	31
Production Area,	Sample Number	No Name & Code		SOUTHWEST	CENTRAL TEXAS ITASCA 2 SLM LT SP	NORTHWEST TEXAS ANSON 1 SLM	BULA 1 ~10	FL DORADA 1 LM LT SP	IENORAH 2 MID	MEADOW 1 SLM	RULF 1 SLM	SEAGRAVES 1 MID

Reduced from 42 because of bark 1

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	Spin.	Poten- tial	No.		19	50	54	69	57	11	59	99	54	53	19	59
	Imprfect'ns	50s or 12 tx	읾		. 11	13	14	91	16	13	54	6	16	54	23	18
Yarns	Imprf	22s or 27 tx	<u>8</u>		13	13	20	19	23	17	36	10	20	31	34	22
Carded Y	ance	50s or	No.		06	06	06	06	06	06	80	100	7.0	7.0	80	80
1	Appearance Index	22s or 27 tx	일		120	110	130	100	100	110	110	120	100	06	06	100
st Results	tion	50s or 12 tx			4.1	4.5	5.0	4.7	4.7	5.0	4.1	4.5	4 6	4.2	5.1	4.
sing Test	Elongation	22s or 27 tx	اب		FN7 6.9	6.1	ENT 6.6	FNT 6.5	ENT 6.8	ENT 6.7	ENT 6.5	ENT 6.1	ENT 6.3	5.8	ENT 6.7	FNT 6.3
Processing	gth	50s or	Lbs		PERCENT 31 6.	PERCENT	PERCENT 30 6.	PERCFNT 34 6.	PERCENT	PERCENT	PERCENT 30 6.	PERCENT	PERCENT 26 6.	PERCENT	PERCENT	PERCENT 33 6.
	Strength	22s or 5 27 tx	Ips		69	80	98 96	90	94	100	100	95	70	100	100	101
	P & C	Waste	Pct		7.3	5.3	6.9	5.6	5.5	7.5	7.4	4.9	4.9	5.1 1/	10.1	7.5
	Color Raw Stock		<u></u> 8		8	3	m	2	٣	8	2	۳	9	m	ω ["
	Co] Raw S	Gra	읽		6	ĸ	 1	2	8	2	60	-	m	~	r	~
	S.A.	Non- Lint	Pet		2.1	3.1	3.0	5.7	3 2.7	3.0	5.0	2.5	W 4. 6.	2.8	6.2	Ċ.
ts	Elon-	gat'n 1/8"	Pet		K ING 11 8.1	K ING 11	LLE 213 7.3	NE 16 7.4	21	417	LLE 633 7.5	NE 16 6.8	21 1	201	511 6.9	201
st Results	er rth	1/8" Gage	G/tex		DIXIE K 22	OIXIE K 22	STONEVILLE	SELTAPINE 23 7.	STONE VILLE 20 7.	26 26	STONEVILLE 23 7.	DELTAPINE 23 6.	STONEVILLE 21 7.	21 21	MCNAIR 24	CHKER 2
Fiber Tes	Fiber Strength	Zero	Mpsi		75	90	62	84	7.8	84	81	82	80 12	3,4	82	ξ.
F		Mike	Rdg		4.6	4.4	4.7	4.5	6.4	6.4	4.2	4.3	4.1	4.5	4.6	(r
	al raph	Unif.	Pct		45	94	41	4	8	4.7	9 4	94	94	44	1+	4
	Digital Fibrograph		티		1.1	1.03	10.1	1.39	1.05	1.11	1.05	1.39	1.07	1.09	1.08	90.1
		Stple	32s	AREA	34	33	33	34	33	35	34	34	33	34	35	3,6
Area,	ber	П		A	51	51	14	51	51	41	51	41	15	41	51	4A .L.S
Froduction Area, Classification	& Sample Number	No Grade Name & Code		SHUTHFAST	ALABAMA CURA 2 LM	CULLMAN 2 LM	GREENBRIER 2 SLM	HARPERSVILLE 2 LM	HUNTSVILLE 2 LM	PRATTVILLE 2 SLM	SYLACAUGA 2 LM	TUSKEGEE 2 SLM	GFOR GTA DAWSON 2 LM	REYNOLDS 2 SLM	NORTH CAPOLINA LAURINAURG 2 LM	SOUTH CAROLINA CALHPUN FALLS

Table 3.-Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973

1/ Cotton stuck to processing roller

Continued)
. 1973(
, crop of
areas,
by production
characteristics
Quality
staple:
medium
an upland
American
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Sample Number Supple Strength			Processing 5	Test Results	ts - Carded	Yarns		
Stple Stple 2.5% Unif. Mike Zero 1/8" Gage Gage 1/8" Lint	S.A. Raw Stock		Strength Elon	Elongation	Appearance Index	Imprfect'ns		Spin.
41 34 1.07 44 4.5 75 20 6LTAPINE 16 41 34 1.07 44 4.5 77 21 7.4 3.4 41 34 1.07 44 4.5 73 21 7.4 3.4 41 34 1.07 44 4.5 73 21 7.4 3.4 41 34 1.07 44 4.5 73 21 7.4 3.4 41 34 1.07 44 4.5 73 21 7.4 4.0 51 34 1.07 44 4.5 73 21 7.4 4.0 51 34 1.07 44 4.5 73 21 7.4 3.4 51 34 1.07 45 4.9 85 24 7.4 3.4 51 34 1.07 46 4.7 73 20 7.1 2.9 51 34 1.07 46 4.7 73 20 7.1 2.9 51 34 1.07 46 4.7 73 20 7.1 2.9 51 34 1.07 46 4.7 75 20 7.1 2.9 51 34 1.07 46 4.7 75 20 7.1 2.9 51 34 1.07 46 4.7 75 22 7.3 3.5		Waste	22s or 50s or 22s or 27 tx 12 tx 27 tx	50s or 12 tx	CO .	22s or 27 tx	50s or	Foten- tial
41 34 1.11 46 5.0 81 23 8.1 3.0 41 35 1.13 46 4.5 77 21 7.9 3.0 41 35 1.12 47 4.9 82 22 7.4 4.0 51 34 1.12 47 4.9 76 22 7.4 4.0 41 35 1.11 47 5.0 81 21 6.8 1.9 41 34 1.07 44 4.7 73 21 7.4 3.4 41 34 1.09 45 4.9 85 24 7.4 4.0 51 34 1.07 46 4.3 75 20 7.1 2.9 51 34 1.07 46 4.3 75 22 7.3 3.5 51 34 1.07 46 4.7 73 20 7.1 2.9 51 34 1.07 46 4.7 73 20 7.1 2.9 61 35 1.13 46 4.7 75 20 7.3 3.3 61 36 1.07 66 3.3 61 37 1.07 67 67 67 67 67 7.0 6.9 2.2 61 37 1.07 67 67 75 75 75 77 7.0 7.0 7.1 2.9 61 37 1.07 76 7.3 77 72 7.0 7.0 7.1 2.9	1	Pet	bs Lbs Pc		OI.		외	S
41 34 1.11 46 5.0 81 23 8.1 3.0 41 35 1.13 46 4.5 77 21 7.9 3.0 41 35 1.12 47 4.9 82 27 7.0 1 7.9 51 34 1.12 47 4.9 76 22 7.0 3.3 T 41 35 1.11 47 5.0 81 21 6.8 1.9 RIDGE 41 34 1.07 44 4.7 73 21 7.4 3.4 RIDGE 41 34 1.09 45 4.5 81 20 6.9 2.2 FINEVILLE 213 DELTAPINE 16 10 34 1.07 46 4.7 73 21 7.4 4.0 STONEVILLE 213 THE SMOOTHLEE 213 THE STONEVILLE 213 THE SMOOTHLEE 213 THE STONEVILLE 213 THE TABLE 16 THE STONEVILLE 213 THE STONEVIL								
41 35 1.13 46 4.5 77 21 7.9 3.0 41 35 1.12 47 4.9 82 22 7.4 4.0 51 34 1.12 47 4.9 76 22 7.0 3.3 41 35 1.11 47 5.0 81 21 6.8 1.9 41 35 1.11 47 5.0 81 21 6.8 1.9 41 34 1.07 44 4.7 73 21 7.4 3.4 RIDGE 41 34 1.09 45 4.9 85 24 7.4 4.0 RIA 41 34 1.07 46 4.3 75 20 7.1 2.9 DELTAPINE 16 4.0 TUIDENCE 51 34 1.07 46 4.3 75 22 7.3 3.5 TUIDENCE 51 34 1.07 46 4.7 80 23 8.3 3.4	o.	5.4	100 PERCENT 104 35 7.1	2.0	100 80	13	σ.	61
41 35 1.12 47 4.9 82 22 7.4 4.0 51 34 1.12 47 4.9 76 22 7.0 3.3 41 35 1.11 47 5.0 81 21 6.8 1.9 41 34 1.07 44 4.7 73 21 7.4 3.4 RIDGE 41 34 1.09 45 4.9 85 24 7.4 4.0 RIA 41 34 1.09 45 4.9 85 24 7.4 4.0 STÜNEVILLE 213 FREX SMOOTHLE 213 FREX FREX SMOOTHLE 213 FREX FREX SMOOTHLE 213 FREX FREX SMOOTHLE 213 FREX FREX FREX FREX FREX FREX FREX FREX	0	5.5	98 PERCENT 103 35 6.8	2.5	100 90	1.7	12	62
51 34 1.12 47 4.9 76 72 7.0 3.3 41 35 1.11 47 5.0 81 21 6.8 1.9 51 34 1.07 44 4.7 73 21 7.4 3.4 8106E 31 34 1.09 45 4.5 81 20 6.9 2.2 61 34 1.09 45 4.9 85 24 7.4 4.0 81A 41 34 1.09 45 4.9 85 24 7.4 4.0 81A 71 34 1.09 46 4.7 75 30 0ELTAPINE 16 71 34 1.09 46 4.7 75 20 7.1 2.9 81A 71 34 1.07 46 4.7 75 20 7.1 2.9 81 35 1.13 46 4.7 80 23 8.3 3.4	0	4.9	100 PERCENT 100 29 6.3	4.4	100 90	19	13	94
41 35 1.11 47 5.0 81 21 6.8 1.9 41 34 1.07 44 4.7 73 21 7.4 3.4 RIDGE 31 34 1.09 45 4.5 81 20 6.9 2.2 41 34 1.09 45 4.9 85 24 7.4 4.0 RIA 41 34 1.03 44 4.5 75 20 7.1 2.9 DELTAPINE 45 4.0 DELTAPINE 45 4.0 TOTOMEWICH STATES AND STATES	κ,	7.0	100 PERCENT 89 27 6.1	4.2	90 80	20	- 91	55
41 34 1.07 44 4.7 73 21 7.4 3.4 RIDGE 31 34 1.09 45 4.5 81 20 6.9 2.2 HIA 41 34 1.10 45 4.9 85 24 7.4 4.0 STÜNEVILLE 213 S	6	5.1	95 PERCENT 96 28 6.0	4.1	110 80	21 1	11	- 8 -
RIDGE 31 34 1.09 45 4.5 81 20 6.9 2.2 A1 34 1.10 45 4.9 85 24 7.4 4.0 RIA 41 34 1.03 44 4.5 75 20 7.1 2.9 51 34 1.07 46 4.3 75 22 7.3 3.5 TUIDEMCE 41 35 1.13 46 4.7 80 23 8.3 3.4	4	5.6	100 PERCENT 83 21 6.2	0.4	04 06	21	19	48
RIA 41 34 1.10 45 4.9 85 24 7.4 4.0 RIA 41 34 1.03 44 4.5 75 20 7.1 2.9 DELTAPINE 45A 51 34 1.07 46 4.3 75 22 7.3 3.5 OVIDENCE 41 35 1.13 46 4.7 80 23 8.3 3.4	66	4.91	75 PERCENT 94 27 6.2	4.3	120 90	15	10	59
SIONEVILLE 213 41 34 1.03 44 4.5 75 20 7.1 2.9 51 34 1.07 46 4.3 75 22 7.3 3.5 TVIDENCE 41 35 1.13 46 4.7 80 23 8.3 3.4	0	5.8	100 PERCENT 101 33 6.2	8 • 4	110 90	17 1	15	49
TE 51 34 1.37 46 4.3 75 22 7.3 3.5 EPROVIDENCE 16 4.7 80 23 8.3 3.4	0	5.3	75 PERCENT 79 22 5.8	9.6	100 70	0,	25	45
AKE PRIVIDENÇE SLM 41 35 1.13 46 4.7 80 23 8.3 3.4	r.	6.2	85 27 6.2	4.3	100 70	20 1	81	54
	4	6.3	100 PERCENT 111 39 7.2	5.4	120 100	14	60	11
LAKF PROVIDENCE 2 S1M 41 34 1.03 46 4.7 82 23 6.8 2.9 2	o .	5.8	100 PERCENT 95 30 6.0	4.6	08 06	17 1	16	56
MUNRUF 2 SLM 41 35 1.12 45 4.5 78 22 8.0 2.6 3	ç	5.1	100 PERCENT 95 30 6.4	6.4	02 06	47 2	27	59.

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

ı 1	ı .		ı					- 9 -									
	Spin.	Poten- tial	읽	49	57	58	59	58		59	72	19	67	7.1	61	7.1	57
	Imprfect'ns	50s or	ଥା	æ	24	18	16	60		9	10	19	15	12	21	19	د 1
Yarns	Imprfe	22s or 27 tx		10	39	22	23	6		18	24	21	20	21	25	19	18
Carded Ya	nce	50s or 12 tx		001	7.0	80	70	06		06	30	06	0.6	80	70	80	7.0
	Appearance Index	22s or 5		130	80	110	100	120		120	110	100	100	110	100	100	100
st Results	tion	50s or 12 tx	Pet	4.7	4.7	4.0	4.6	4.4		4.7	5.3	5.2	4.5	4.	4 0	5.2	3.7
Processing Test	Elongation	22s or 27 tx	Pct	PERCENT 34 6.6	PERCENT 29 6.6	PERCENT 25 6.0	PERCENT 29 6.4	PERCENT 30 6.2	PERCENT	6.5	PERCENT 35 7.0	PERCENT 36 7.3	PERCENT 37 6.2	PERCENT	PERCENT 32 6.9	PERCÉNT 35 7.2	PERCENT 28 5.7
Proce	Strength	50s or	ł					85 PER 30	95 PER	31		90 PER 36		0 PER	0	0 PER 35	
	Stre	22s or 27 tx	Lbs	100	100	100 91	100	94	6	16	100	110	100 112	100	100	100	100
	P & C	Waste	Pet	4.9	5.2	6.7	9.9	6.5		4.9	1.9	7.8	4.9	5.2	7.1	0.	6.3
	Color Raw Stock	Yel	NO	m	m	3	m	m		2	2	2	2	2	2	61	2
	Co. Raw	Gra	읽	m	2	4	m	ъ		2	~	-	8	1	m	2	2
	S.A.	Non- Lint	Pct	2.4	3.2	3.8	3.6	3 2.5		2.1	2.3	4.1	5.0	2.1	3 5,3	3.1	£.
ts	Elon-	gat'n 1/8"	Pet	ELTAPINE 16	INE 16	77	ONEVILLE 213	ONE VILLE 213	INE 16	6.5	TAPINE 16	LTAPINE 16 3 8.8	KING 111 6.0	LTAPINE 16 0 8.5	ONEVILLE 21:	INE 16 8.0	CNEVILLE 7A
est Results	Fiber	1/8" Gage	G/tex	DELTAP 23	DELTAPINE 22 8	STONEVILLE 20 7.	STONEV 21	STONE V 22	DELTAPINE	21	DELTAP 24	DELTAP 23	01 XI E 24	DELTAP 20	STONEV 22	DELTAPINE 16 22 8.0	STONEV 23
Fiber Test	Fiber Strength	Zero Gage	Mpsi	81	76	80	85	82		82	80	79	85	7.8	79	8 2	9.0
H		Mike	Rdg	5.1	4.7	4.6	F. 4	6.4		4.6	4.5	3.5	4.7	4.0	4.4	4.0	4.7
	al raph	Unif.	Pct	94	5 5	46	45	47		44	94	43	8	45	45	4	94
	Digital Fibrograph	2.5% span	In nued)	1.11	1.13	1.08	1.10	1.37		1.09	1.12	1.13	1.09	1.14	1.13	1.14	1.12
		Stple	32s Conti	34	34	36	34	4		34	35	35	34	36	34	35	34
Area,	ber		REA(tinued	41	51	51	41		41	41	41	51	41	51	41	41
Production Area, Classification	& Sample Number	No Grade Name & Code	SOUTH CENTRAL AREA(Continued)	LOUISIANA(Continued) DAK GROVE 2 SLM LT SP 42	SHREVEPORT 2 SLM	SICILY ISLAND 2 LM 5	WISSISSIPPI CLAPKSDALE 2 LM	EDWARDS 2 SLM	FPPEST	2 SLM	GUNNISCN 2 SLM	HOLLY SPRINGS 2 SLM 4	INDIANCLA 2 LM	LAKE CPRMORANT 2 SLM 41	LELAND 2 LM	SC CTT	TRIBBETT 3 SEM

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973--(Continued)

		Spin. Poten-	tial	No		51	57	60	53	50	47		£	4	64	æ
	L										4		4	4	4	73
		Imprfect'ns	or 20s or tx 12 tx	S.		15	15	19	13	14	0		94	15	24	11
arns		Impr	22s or 27 tx	SI SI		16	20	24	24	15	•		57	24	36	13
Carded Yarns	rance	xe xe	DOS OF	<u>8</u>		80	70	06	06	06	100		09	80	70	06
	Appearance		27 tx 12 t	<u> </u>		110	06	110	100	110	120		80	110	06	100
est Res	:		12 tx	Pct		4.3	6-9	4	4.3	5	4.3		4.3	4	4.2	5.0
Processing Test Results	-		2 tx 27 tx			PERCENT 26 6.1	PFRCENT	S	PERCENT 29 6-3	PERCENT 29 6.4	PERCENT 25 5.3		PERCENT 26 6.1	PERCENT 22 5.6	PERCENT 26 6.3	PERCENT 38 7.2
五		Strength	27 tx 12 tx	न डक्न		100 1	100 6	98	96	95 6	90		100 87	7.2 F8	70 9	95 P
		P&C Waste		Pct		6.0	4 ر	7	5.5	5.4	7.3		9.3	5.5	5.4	5.32/
	Color	Ω-	Yel	No		w	~	, ,	ı w	۳	m		6	٣	4	m
	8		Gra	N N		2	-	-		2	8		'n	-	2	2
		S.A. Non-	Lint	Pct		3,3	3	, שי	3.4	F 4.1	2.4		5.9	3.1	2.1	2 . 8
lts		Elon- gat'n	1/8"	Pct		1LLE 213	/ILLE 213	- 11	// LLE 213	SMDDTHLEAF 7.6	K ING 11		SP37	INE SR-	7 4789 6.6	DELTAPINE 16 24 7.6
Test Results	Fiber	1/8"	Gage	G/tex		STONE VILLE	STONEVILLE	STONE	STEVEVILLE 23 7.5	REX SM	01X1E 20		TAMCOT 22	DELTAPINE 21	LOCKETT 21	DELTAP 24
Fiber T	T-FT	Streng	Gage	Mpsi		**	α	2 0	62	80	8 2		8	84	8	40
		Mike		Rdg		5.0	4		4.7	4.2	4 8		3.1	4.5	4	÷ 60
	رق	graph	Unit.	Pct		46	44	. r	5 5	94	145		40	24	9+	46
	Digital	121	span	In nued)		1.08	- -		1.07	1.08	1.01		1.01	66.	10.1	1.17
			Stple	32s Conti	ned	35	3,5	; ;	3.6	34	34	AREA	722	30	32	38
Area,	1070	ber	le	EA	ontin	41	1,4	: 3	41	41	4.1	4	611	31	32	L S 41
Production Area,	3	Sample Number	Nome & Code	32s In SOUTH CENTRAL AREA(Continued)	MISSISSIPPI (Continued	TUNICA 2 SLM	MISSOURI BFLL CITY	CAMPBELL	STEELE 2.SLM	TENNESSEE MILLINGTON 2 SLM	SPRING CREEK 2 SLM	SOUTHWEST	CENTRAL TEXAS WHITNEY 2 SGN	NORTHWEST TEXAS BRCWNFIELD 1 MID 3	O'DONNELL 1 MIO LT SP	OKLAHOMA Websers Falls 1 Slm 4

 $\frac{1}{2}$ Reduced from 51 because of bark $\frac{2}{2}$ Cotton stuck to processing roller

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1973 -- (Continued)

Spin.	oten	0.														
_	H4	SI N	0 4	46	63	56	. 94	74	8	69	49	74	72	75	99	
fect'ns	7	N N	20	13	12	12	17	œ	20	10	21	11	14	18	10	
Impr	22s o 27 ts	No	23	20	21	17	19	σ	23	15	28	16	21	23	œ	
rance	000	8	90	06	7.0	06	06	06	7.0	06	10	80	80	80 70	06	
Appea	22s 27	N N	001	100	110	100	110	120	100	120	06	110	100	100	130	
gation	50s 12 t	Pet	4.7	4.5	5.1	4.2	4.3	٠, ٢	3.9	4.4	4.1	4.6	4.3	4.7	4.	
-	or 22s x 27 t	Pet	CENT 6.1	5.4	6.4	6.1	CENT 5.8	CENT 6.2	5.8	5.9	CENT 5.4	CENT 6.2	CENT 5.8	CENT 6.0 5.5	* ICENT *	
rength	r 50s											0 PER 45		0 PER 42 36	0 PFR 33	
	22s 27 t	Tps	88	94	108	10	93	10	10	120	116	130	118	10 124 112	103	
Д 8		Pct	5.8 1	5.5 1	4.5	4.5	5.4	6.2	6.1	7.3	5.5	6.9	4.7	6.9 6.9	5.8	
olor	Yel	잂	٣	4	3	۳	3	٣	3	3	6	3	ю	m 4	٣	
, A		일	0	-	0	-	-	-	~	-	2	2	-	3	0	
S.A.	Non- Lint	Pct	2.7	3 2.5	2.5	5.0	2.0	2.3	7.0	1.8	2.5	2.6	2.0	2.3	1.9	
Elon-	\Box		11 E 21 E	21	INE 16	INE 16 7.1	INE 16 7.6	SJ-1 5.7	INE 16 6.5	SJ-1 5.2	5 J-1 5.3	5J-1 5.5	5J-1	5.9 5.4 5.4	INE 16 8.4	
liber enoth	1		STONEV 20	STONE V 22	DELTAP 24	DELTAP 23	DELTAP 22	ACALA 29	DELTAP 25	AC AL A 28	ACALA 26	ACALA 27	ACALA 26	AC AL A 27 26	DELTAP 22	
± 5.	Zerc	Wbs	82	46	85	88	85	96	88	96	100	92	16	92	76	
		Rdg	4.1	5.3	4.7	4.3	4.9	6.4	4.9	4.6	4.3	4.1	4.4	4 4 4 4	4.3	
tal graph	Unif	Pct	4	4.5	45	45	5 5 7	4 80	44	46	46	46	46	4 4 6 5 5	7,7	ller
Digi		듸	1.03	1.08	1.14	01.1	1.39	1111	1.07	1.09	1.39	1.12	1.12	1.11	1.08	or puis
	Stple	32s FA				35		35	34	35	35	35	35	35		roce a
ber	le	AR	31	32	31	31	31	31	31	31	41	1+	31	31	٦٢	to n
& Sample Num	No Grade Name & Coo	EST	RIZONA BOWIE 2 MID	BUCKEYE 1 MID LT SP	CHANDLER 2 MID	PARKER 2 MID	STANFTELD 2 MTD	ALIFORNIA BAKFPSFIELD 2 min	SR AWLEY 1 MID	BUTTOWMILLOW 2 MID	PIXLEY 2 SLM	SHAFTER 2 SLM	STRATEORD 2 MID	MASCO 1 MID 2 SLM	EST TEXAS PECOS 1 MIO	1/ Cotton stuck to processing roller
	Digital Fiber Elon- S.A. Raw Stock P & C Strength Elongation Ap	& Digital Fiber Sample Number Digital Fiber Strength Elon- S.A. Raw Stock Name & Code P & C Strength Blook at In Strength Blook at In Strength In In In Strength In In In Strength In In In Strength In In In In Strength In I	Sample Number Digital Strength Spanner Fiber Strength Strength Fiber Strength Elon-Strength S.A. Raw Stock Name & Code Ray Stock Stock P.G. Strength Blongation Name & Code Appearance Inper P.G. Strength P.G. Strength	Sample Number Digital Fiberegraph Sample Number Fiberegraph Sample Number Fiberegraph Strength Span Fiber Strength Strength Strength Strength Strength Strength Strength Span Elon- 1/8" Strength Strength Strength Strength Span S.A. Raw Stock	Sample Number Digital Fiber Fiber gate Number Fiber Grade S.A. Raw Stock Number S.A. Raw Stock Gode S.A. Raw Stock Number S.A. Raw Stock Stock Stock Stock Number S.A. Raw	Sample Number Digital Strength Fiber Sample Number S.A. Golor Grade Grade Stole S.A. Golor Grade Stole S.A. Golor Stock Stock Stock P.B. Strength Grade Stock P.B. Strength Grade Stock P.B. Strength Grade Stock P.B. S.A. Golor Stock P.B. Stock Stock P.B. P.B.	Sample Number Digital Digital Strength Streng	Sample Number Digital Strength Stren	Sample Number Supple Number Supple Number Supple Number Supple Number Supple S	Sample Number Supple Numbe	Saughle Number Saug	Sample Runner Sample S	Suggistion Sug	Supplies Number Digitation Digitation	Supplie Rumber Supp	Sumple S

 $\underline{1}/$ Cotton stuck to processing roller * 100 percent selected for tests, less than 100 percent in the area

1		ļ					- 12 -							
	Spin.	tial	No	62	63	61	70		59		66	16	06	
	t'ns	50s or 12 tx	No	11	n on	12 8	23		22		19	14 8	19	3
Yarns	Imprfect'ns	22s or 27 tx	No No	15	15	15	28		31	ı	19	20	23	<u>}</u>
ਲ		50s or 12 tx	No	06	100	90	90		80		90	80 80	70	2
1	Appearance Index	22s or 5 27 tx 1	No	110	120 120 130	110	110		100	} }	100	100	100) }
Test Results	tion	50s or 12 tx	Pct	5.0	5.0	4.9	4.7 5.1		6.4	,	5.0	4°7 5°4	4 r.	•
Processing Te	Elongation	22s or 27 tx	Pct	PERCENT 35 6.2	40 6.9 PERCENT 32 5.9 40 6.4	5.8 5.8	PFRCENT 35 6.1 43 6.8		PERCENT 39 6.6 46 6.8	•	PERCENT 49 6.7 57 7.3	54V2/ 6.9 6.9	PERCENT2/ 46 6.3 55 6.7	• >
Proces	th	50s or 12 tx	Lbs			30 39)		PERC 44 53		,
	Strength	22s or 27 tx	Lbs	100	118 100 106 121	100 101 116	100 104 121		100 111 711		143 154	100 131 148	133 131 151	:
	P & C	Com b er Waste	Pct	9.		9.2	9.8 16.2		10.0		6.5 13.8	6.7	7.6	•
	lor Stock	Yel	8	m.	* *	*	۰ *		~ *	•	<i>۳</i> *	ω *	۴,	
	Color Raw Sto	Gra	&	m	ю	4	т		2		0	-	-	
	S.A.	Lint	Pet	5.0	5.9	4.4	5.3		5.1		2.3	2.4	2.0	
ts	Elon-		Pct	310	310	310 6.8	310 6.8		310 6.5		1517-73 6.6	1517-v 6.4	1517-V 5.9	
Fiber Test Results	er gth	1/8" Gage	g/tex	COKER	COKER 24	COKER 23	COKER 3		COKER 24		ACALA 27	AC AL A	ACALA 27	
iber Te	Fiber Strength	Zero	Mpsi	98	80	82	82		86		86	92	92	
E4		Mike	Rdg	4.6	5.2	4 8 8	4 6		4.1		3.9	8 8	3.4	
	11 toh	Unif.	Pct	45	45	46	45		4		,	45	44	data
	Digital Fibrograph	2.5%	됩	1.13	1. 11	1.11	1.15		1.19		1.18	1.17	1.16	ed yarn
		Stple	32s	AKFA 34	34	34	35	AREA	36	AREA	36	36	35	combe
rea, ion	r.			51	45	42	A 51 <u>1</u> /35	∢	51	Ø	31	31	31	e and
Production Area, Classification	& Sample Number	No Grade Name & Code		SUUTHFASI ALABAMA GERALDINE 2 LM	GEOPGIA CCMER 2 SLM LT SP	MADISON 2 SLM LT SP	SOUTH CAPOLINA HARTSVILLF 2 LM	SOUTH CENTRAL	MISSISSIPPI MORGAN CITY 3 LM	WEST	NEW MEXICO ARTESIA 2 MID	DEXTER 2 MID	LAS CRUCES 2 MTO	* Comber waste and combed yarn data

Table $^{\downarrow}$ --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973

1/ Reduced from 41 because of grass 2/ 100 percent selected for tests, less than 100 percent in the area

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1973--(Continued)

Production Area, Classification	rea, ion				Fiber T	Fiber Test Results	ts					Proces	sing Te	st Resu	Processing Test Results - Carded Yarns	rded Ya	ırns		
& Sample Number	ər	Digital Fibrograph	Digital brograph		Fiber Strength	ber ngth	Elon- S.A. gat'n Non-	S.A. Non-	Color Raw St	Color P&C Strength Elongation Raw Stock and	Stren	lgth	Elonge	tion	Appearan Index	nce	Appearance Imprfect'ns Index		Spin. Poten-
No Grade Name & Code		Stple 2.5% span	Unif.	Mike	Zero Gage	1/8" Gage		Lint	Gra	Gra Yel Comber 22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s or 5	er 22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 5 27 tx 1;	Os or 2 tx	Comber 22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s or Waste 27 tx 12 tx 27 tx 12 tx 27 tx 12 tx 12 tx		ial
	32s	П	Pet	Rdg	Mpsi	G/tex	Pct	Pct	No No		Tps	Lbs	Lbs Pct	Pet	8	% 	No No		일
WEST AREA (Continued)	inued)																		
WEST TEXAS						AC AL A	CZ-7151				6	O PERC	FNE						
2 SLM	41 35	1.17	41 35 1.17 46 3.7	3.7	90	27	6.3	2.8	-	27 6.3 2.8 1 2 8.1 139 47 7.1 5.0 100 * 16.7 152 57 6.9 5.4 100	139	57	7.1	7.0 4.0	0001	0 0	70 18 12 96	~ ~ ~	96

* Comber Waste and Combed Yarn Data

Table 5 -- Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1973

	su	s or tx	01		01	٥.
	fect '	7 80	외		,,,	10
	Imprfect'ns	50s o	욁		1	-
ırns	pearance Index	80s or 7 tx	욁		120	130
Processing Test Results - Combed Yarns	Appearance Index	50s or 80s or 50s or 80s or 50s or 80s or 50s or 80s or 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx 12 tx 7 tx	욄		130	5.5 4.8 120 130
ts - Co	tion	80s or 7 tx	læ L		6.4	4.8
t Resul	Elongation	50s or 12 tx	lst L		5.6	5.5
ing Tes	gth	BOs or 7 tx	Lbs		4T 35	37
Process	Strength	50s or 12 tx	I.bs I.bs		100 PERCENT 7.8 65	100 PERCENT 7.6 67
	Elon- S.A. Raw Stock P & C Comber	Waste Waste 50s or 80s or 50s or 80s or 80s or 50s or 80s	Pet		100 PERCENT 5 5 7.2 17.8 65 35 5.6 4.9 130 120	100
	7 S, C	Waste	No No Pct		7.2	9.9
	r	Yel	욁		ю	10
	Color Raw Sto	Gra	욁		2	4
	S.A.	1/8" Lint Gra Yel	Pet		3.3	1.9
Ŋ	Elon-	gat'n 1/8" Lint	Pct		4 S-4 4 7.8 3.3	MA S-4 100 PERCENT 3 8.0 1.9 4 5 6.6 17.6 67 37
Fiber Test Results	ų.	1/8" Gage	G/tex		PIMA 5-4	MA S-4
Test	Fiber Strength					3
Fiber	St.	-	Mpsi		100	66
		Mike	Rdg		4.1	3.9
	Array Length	cα	Pet		31	34
	Ar Len	TON	티		1.47	1,44
		Stple	32s	ARFA		
Area,	ber			A	4	44
ion /	& Le Numb	Grade te & Cod			4	m
Production Area, Classification	& Sample Number	Grade Name & Code			WEST TEXAS EL PAST	ASU
A D	Ø	Se la se		WEST	ST TEXA	FL PASA
		Z		3	W.	